VASILENKO, F.D.; SHOLOKHOV, S.V.

Change in the secretory function of the gastric glands under the influence of mineral water from the Krainka Health Resort. Vop. kur.,fizioter.i lech.fiz.kul't. 25 no.1:27-32 '60. (MIRA 13:5)

1. Iz fiziologicheskoy laboratorii (zav. F.D. Vasilenko) otdela eksperimental'noy kurortologii (zav. V.G. Prokopenko [deceased]) TSentral'nogo instituta kurortologii (dir. - kandidat meditsinskikh nauk G.N. Pospelova).
(KRAINKA--MINERAL WATERS) (STOMACH--SECRETIONS)

GERSAMIYA, G.K.; SHOLOKHOV, S.V.

Method for the determination of thyroid function in rats by means of radioactive iodine. Biul. eksp. i biol. med. 50 124-126 Ag '60. (MIRA 13:10)

1. Iz eksperimental'nogo otdela (zav. - prof. F.D. Vasilenko) Gosudarstvennogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. G.N. Pospelova), Moskva. Predstavlena deystv. chlenom AMN SSSR V.N. Chernigovskim.
(THYROID GLAND) (IODINE--ISOTOPES)

KRYLOV, N.P., kand.med.nauk; ODINOKOVA, V.A.; SHOLOKHOV, S.V. (Moskva)

Role of hypo- and hyperfunction of the thyroid gland in the regeneration of divided sciatic nerve in the rabbit. Probl. endok. i gorm. no.4:39-45 '62. (MIRA 15:11)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. -- kand.med.nauk T.N. Pospelova) i patologoanatomicheskogo otdela Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo (dir. -- kand.med.nauk P.M. Leonenko).
(SCIATIC NERVE) (THYROID GLAND)
(REGENERATION (BIOLOGY))

SHOLOKHOV, S.V.

Modification of the method of registering the motor function of the gastrointestinal tract. Bul. eksp. biol. i med. 56 no.7:112-113 Jl'63 (MIRA 17:3)

1. Iz fiziologicheskoy laboratorii (zav. - kand. biologicheskikh nauk A.I. Zol'nikova eksperimental'nogo otdela (zav.- prof. F.D. Vasilenko) TSentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova). Predstavlena deystvitel'nym chlenom AMN SSSR P.D. Gorizontovym.

SHOLOKHOV, S.V.

Functional relationships of the thyroid gland and stomach. Biul. eksp. biol. i med. 56 no.11:27-32 O [i.e. N] '63. (MIRA 17:11)

1. Iz fiziologicheskoy laboratorii (zav. - kand. biolog. nauk A.I. Zol'nikova) eksperimental'nogo otdela (zav. - prof. F.D. Vasilenko TSentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova). Predstavlena deystvitel'nym chlenom AMN SSSR P.D. Gorizontovym.

SHOLOKHOV, V.A.

"A Cytological Study of the Gametes in the Chick" (p.248) by V.A. Sholokhov

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XV, 1942, No. 2

SHOLOKHOV, V. A.

Mbr., Inst. Cytology, Histology, & Embryology, Dept. Biol. Sci., Acad. Sci., -1944-46-.
"Age Variation of Skin in Karakul Lambs," Dok. An, 45, No. 9, 1944; "Morphologic
Albumin Exchange in Cells of Planera," Iz. Ak. Nauk SSSR, Ser. Biol., No. 6, 1948.

SHOLOKHOV, V. A.

"Age Variation of the Skin of Karakul Sheep," 49, No. 1, 1945; Inst. Cytology, Histology and Embryology; Acad. Sci., -c1945-.

Mem., Inst. Cytology, Histology, and Embryology, Acad. Sci. USSR

"Morphology of the Absorption of Iron in Planaria"
Tsit. Ab. T. 1, No. 2, 1947.

USSR/Medicine-Plants, Physiology Nov/Dec 48
Medicine-Planera, Albumen Exchange

"Morphologic Albumen Exchange in Cells of Planera," V. A. Sholokhov, Lab of Cytol Physiol, Inst of Cytol, Histol, and Embryol, Acad Sci USSR, 13 pp

"Iz Ak Nauk SSSR, Ser Biol" No 6

Studies movements of iron in the organ of planera. Preparations used were ferratin and hemoglobin of the blood, which are albuminous bodies and resembles the natural food of planera. Iron is absorbed along with products of digestion of albumins. Submitted 25 Dec 46.

FDB

49/49T74

SHOLOKHOV, V. A.

USSR

The ability of some basic vital pigments to react with anabolites. V. A. Sholokhov and B. V. Kedrovskii. *Doklady Akad* [illegible] 1095–8(1954).—Specimens of frog tadpoles (at the stages of gill change) were placed in 3–5 day contact with solns. of methylene blue, Bismarck brown, tolnidine blue, Nile blue sulfate, Bright cresyl blue, rhodamine, pyronine. The most rapid acquirement of color by the tadpole occurred with pyronine, Nile blue and Bright cresyl blue; methylene blue, Bismarck brown and tolnidine blue were relatively slower (10–12 hrs. against 3–5 hrs.). Even at low concn. the toxicity of the dyes was apparent. No anabolite granules were observed in any of the specimens. Thus, these dyes cannot convert the diffuse state of protoplasmic anabolites to the granule form. The behavior of neutral red which reacts with anabolites at low concns. is ascribed to the similarity of its structure to that of vitamin B_2. G. M. Kosolapoff

INST. ANIMAL MORPHOLOGY, IM SEVERTSOV, AS USSR

KHAL'KOVTSEV, G.N.; SHOLOKHOV, V.F.; KAPLAN, A.S.; SLAVKIN, V.S.; YAVNILOVICH, Ye.A.; MEL'NICHENKO, S.D.; SMIRNOV, V.A.; MATYUSHINA, N.V., redaktor; GORDIYENKO, V.K., redaktor; ROZENTSVEYG, Ya.D., redaktor izdatel'stva; BERLOV, A.P., tekhnicheskiy redaktor

[Reference manual for State standards and technical specifications for ferrous metals] Spravochnik po gosudarstvennym standartam i tekhnicheskim usloviiam na chernye metally. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 567 p. (MIRA 10:7)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii. (Iron--Standards) (Steel--Standards)

NAKHABIN, V.P., inzh.; MIKULINSKIY, A.S., doktor tekhn.nauk, prof.; SHIRER, G.B., kand.tekhn.nauk; NEVSKIY, R.A., inzh.; SHOLOKHOV, V.F., inzh.; YEFREMKIN, V.V., kand.tekhn.nauk; ZHUCHKOV, V.I., inzh.; KURNUSHKO, O.V., inzh.

Preparation of silicomanganese and ferromanganese from carbonate ores of the "Polunochnoye" deposit. Stal' 20 no. 12:1099-1103 D '60. (MIRA 13:12)

1. Zavod ferrosplavov, TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Institut metallurgii Ural'skogo filiala AN.
(Silicon-manganese alloys) (Ferromanganese)
(Polunochnoye region--Ore deposits)

NAKHABIN, V.P.; MIKULINSKIY, A.S.; SHIRER, G.B.; NEVSKIY, R.A.; SHOLOKHOV, V.F.; YEFREMKIN, V.V.; ZHUCHKOV, V.I.; KURNUSHKO, O.V.; EPSHTEYN, N.Ye.; PANFILOV, S.A.; Prinimali uchastiye: IL'IN, V.M.; ZEMLYAKOV, V.V.; SHMULEVICH, Ye.Ya.

Smelting out manganese-silicon and ferromanganese from Polunochnoye deposit ores in a furnace with a power of 10,500 kilovolt-amperes. Trudy Inst. met. UFAN SSSR no.7:127-145 '61. (MIRA 16:6)
(Manganese alloys) (Sintering)

NAKHABIN, V.P.; SHOLOKHOV, V.F.; NEVSKIY, R.A ; MIKULINSKIY, A.S.; ZHUCHKOV, V.I.; EPSHTEYN, N.Ye.; VOROL'YEV, V.P.

Using semicoke as a type of reducing agent in the production of silicon-chromium and carbon ferrochromium. Stal' 24 no.11:1006-1008 N '64. (MIRA 18:1)

VAYNBERG, G.D., inzh.; KRICHEVSKAYA, Ye.I., kand. tekhn. nauk; MAZALOV, A.N., inzh.; ROZENFEL'D, A.G., inzh.; FOLOMIN, A.I., doktor tekhn. nauk; TESLER, P.A., kand. tekhn. nauk; SHOLOKHOV, V.G., arkhit.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; ONUFRIYEV, I.A., red.; YUDIN, Ye.Ya., red.; NASONOV, V.N., red.; ISIDOROV, V.V., red.; MAKARICHEV, V.V., red.; POLUBNEVA, V.I., inzh., red.

[Improving the durability of industrial built-up roofs] Voprosy povysheniia dolgovechnosti industrial'nykh sovmeshchennykh krysh. Moskva, Gosstroiizdat, 1962. 43 p. (MIRA 17:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut industrial'nykh, zhilykh i massovykh kul'turno-bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Vaynberg, Krichevskaya, Mazalov, Rozenfel'd, Folomin). 3. Nauchno-issledovatel'skiy institut stroitel'noy fiziki Akademii stroitel'stva i arkhitektury SSSR (for Sholokhov). 4. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR, Perovo (for Tesler).

KUZNETSOV, G.F.; KHLUSOV, I.Ye., kand.tekhn.nauk; SHOLOKHOV, V.G., inzh.. Prinimali uchastiye: AKBULATOV, Sh.F., kand.tekhn.nauk; KRICHEVSKAYA, Ye.I., kand.tekhn.nauk; DOROKHOV, A.N., inzh.; NIKIFOROV, I.A., kand.tekhn.nauk; BOGDANOV, B.N., inzh.; AVRUTIN, Yu.Ye., inzh.; VISHNEVSKIY, N.D., inzh.; ARIYEVICH, E.M., kand.tekhn.nauk; LEVITAN, Ye.P., inzh.; TUPOLEV, M.S., prof., doktor arkhitektury. TEMKIN, L.Ye., inzh., red.; KHAVIN, B.N., red.izd-va; BOROVNEV, N.K., tekhn.red.

[Temporary instruction (SN 51-59) for planning and constructing combined roofs of residential and public buildings] Vremennye ukazaniia po proektirovaniiu i ustroistvu sovmeshchennykh krysh (pokrytii) zhilykh i obshchestvennykh zdanii (SN 51-59). Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 34 p. (MIRA 13:1)

(Continued on next card)

KUZNETSOV, G.F.---(continued) Card 2.

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov, Khlusov, Sholokhov). 3. Direktor Nauchno-issledovatel'skogo instituta stroitel'noy fiziki i ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR; deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov). 4. Nauchno-issledov.institut zhilishcha (for Akbulatov, Krichevskaya). 5. Nauchno-issledov.institut proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR (for Dorokhov). 6. Nauchno-issledov.institut po stroitel'stvu Minstroya RSFSR (for Nikiforov). 7. Gorstroyproyekt (for Bogdanov). 8. Mosproyekt (for Avrutin, Vishnevskiy). 9. Akademiya kommunal'nogo khozyaystva im. K.D. Pamfilova (for Arivevich, Levitan). 10. Moskovskiy arkhitekturnyy institut (for Tupolev).

(Roofs, Concrete)

SHVARTS, A.S., arkhitektor; KUKUNOV, P.M., inzh.; DOBRYNIN, S.N., inzh.; DRAMPOV, V.K., inzh.; KHLUSOV, I.Ye., kand.tekhn.nauk; POVALYAYEV, M.I., kand.tekhn.nauk; SHOLOKHOV, V.G., inzh.; TEMKIN, L.Ye., inzh., red.; STRASHNYKH, V.P., red.izd-va; GOL'BERG, T.M., tekhn.red.

[Temporary instructions for designing and constructing flat tar-paper roofs of industrial buildings] Vremennye ukazaniia po proektirovaniiu i ustroistvu ploskikh tolevykh krovel' zdanii promyshlennykh predpriiatii SN 112-60. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 23 p. (MIRA 14:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Promstroyproyekt (for Shvarts, Kukunov, Dobrynin, Drampov). 3. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Khlusov, Povalyayev, Sholokhov). (Roofs)

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S/194/62/000/009/069/100
D295/D308

AUTHOR: Sholokhov, V. G.

TITLE: Automatic tuning system of a generator of fluctuating e.m.f.

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 9, 1962, 36, abstract 9Zh217 (Tr. Mosk. fiz.-tekhn. in-ta, no. 8, 1962, 33-37)

TEXT: The block diagram of an automatic tuning circuit of an infra-low frequency generator of fluctuating e.m.f. with a given self-correlation function is described. Tuning is accomplished by means of a feedback signal, which controls the parameters of a filter system connected at the generator output. The feedback signal $y = \int_0^{\tau} \text{Max} \left[R(\tau) - R_0(\tau)\right]^2 d\tau$ is developed by a computer which com-

Card 1/2

Automatic tuning system ...

prises: a correlator giving the self-correlation function $R(\tau)$ of the controlled noise voltage, a circuit for comparing $R(\tau)$ with the assigned function $R_0(\tau)$, a squarer circuit and an integrator. [Abstracter's note: Complete translation.]

Card 2/2

SHOLOKHOV, V. N.

SHOLOKHOV, V. N. -- "Some Problems of the Formation of Supported Materials of Low-Pressure Dikes on Upper-Piedmont Portions of Rivers." Min Higher Education USSR. Tashkent Inst of Engineers of Irrigation and Mechanization of Agriculture (TIIINSKh). Tashkent, 1955. (Dissertation for the Degree of Candidate of Technical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

SHOLOKHOV, Vasiliy Nikolayevich; POPOV, A.S., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Organization of excursions; a manual for beginners in cultural work] Organizatsiia ekskursii; v pomoshch' nachinaiushchemu kul'trabotniku. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 46 p. (MLRA 10:3)
(Travel)

ARKHANGEL'SKAYA, O.A.; RAKHMANOV, P.A.; TOPOR, V.N.; SHOLOKHOV, V.N.;
NOVOSPASSKIY, V.V., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Tourist trips through the U.S.S.R.] Turistskie marshruty po SSSR.
[Moskva] Izd-vo VTsSPS Profizdat, 1956. 300 p. (MLRA 10:1)

1. TSentral'noye turistsko-ekskursionnoye upravleniye Vsesoyuznogo TSentral'nogo Soveta professional'nykh soyuzov. (for Arkhangel'skaya, Rakhmanov, Topor, Sholokhov)
(Russia--Discription and travel--Guidebooks)

USHAKOV, A.P.; SHOLOKHOV, V.N., kand.tekhn.nauk

Fergana-type water works where the source of water is fed by rain and snow. Trudy SANIIRI no.91:27-54 '58. (MIRA 14:1)
(Soviet Central Asia—Irrigation canals and flumes)

SHOLOKHOV, V.N., kand..tekhn.nauk; TUSHMANOV, N.F. [deceased]

Results of hydraulic investigation of the dam across the Kugart River in conncetion with its reconstruction. (MIRA 13:6)
Trudy SANIIRI no.97:3-16 '59.
(Kirghizistan--Dams)

SHOLOKHOV, V.N., kand. tekhn. nauk

Operation of a low-pressure intake unit at the Chirchik River. Gidr. i mel. 17 no.8:35-44 Ag '65. (MIRA 18:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii.

SHCHERKINOV, V. S.

PHASE I BOOK EXPLOITATION

AUTHOR: See table of contents

TITLE: Manual of Government Standards and Technical Specifications for Ferrous Metals (Spravochnik po gosudarstvennym standartam i tekhnicheskim usloviyam na chernyye metally)

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po chernoy i tsvetnoy metallurgii, Moscow, 1956, 567 pp., 14,500 copies.

ORIG. AGENCY: Ministerstvo chernoy metallurgii SSSR

EDITORS: Matyushina, N. V.; Gordiyenko, V. K.; Editor of Publishing House: Rozentsveyg, Ya. D.; Tech. Editor: Berlov, A. P.

PURPOSE: This manual was compiled for design engineers, technologists, economists and supply specialists to be used as an aid in selecting and ordering ferrous metals: foundry iron, conversion pig, ferroalloys and steel bars, sheet, shapes, and wire.

Card 1/30

Manual of Government Standards and Technical Specifications for Ferrous Metals (Cont.)

TABLE OF CONTENTS:

SHOLOKHOV, V.V.; CHEL'TSOV, Yu.G.

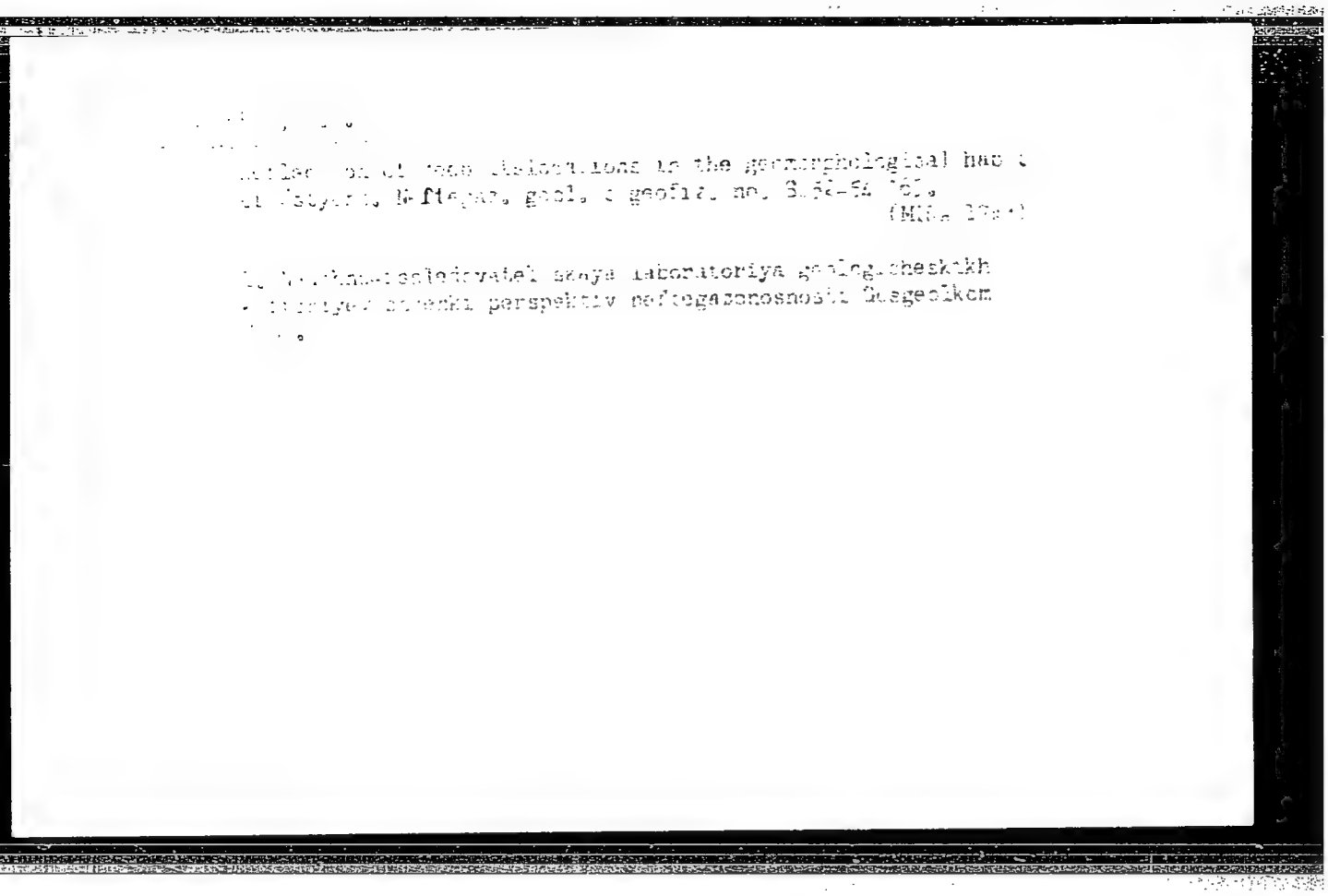
Maeotic and Pontian sediments in the western Ust'-Urt. Izv. vyz. ucheb. zav.; geol. i razved. 3 no. 10:121-122 O '60. (MIRA 13:12)

1. Kompleksnaya Yuzhnaya geologicheskaya ekspeditsiya AN SSSR.
(Ust'-Urt--Sediments (Geology))

SHOLOKHOV, V.V.

Egg shells of Neogene ostriches from Turkmenistan. Paleont. zhur. no.4:137-139 '60. (MIRA 14:1)

1. Kompleksnaya yuzhnaya geologicheskaya ekspeditsiya AN SSSR.
(Zaungurzskiye Karakumy--Eggs, Fossil)
(Ostriches, Fossil)



SHOLOKHOV, V.V.

Concerning the origin and tectonics of the Karynzharyk Trough.
Izv. vys. ucheb. zav.; geol i razv. 7 no.10:12-17 O '64. (MIRA 18:7)

1. Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti.

ARKHIPOV, A.Ya.; ALTAYEVA, N.V.; BAYBULATOVA, Z.K.; VISKOVSKIY, Yu.A.; GOLENKOVA, N.P.; KRAVCHENKO, M.F.; KUPRIN, P.N.; LEVIN, A.I.; POL'STER, L.A.; SEMOV, V.N.; SYRNEV, I.P.; USHKO, K.A.; SHOLOKHOV, V.V.; Prinimali uchastiye: RODIONOVA, M.K.; CHEL'TSOV, Yu.G.; KUZNETSOV, Yu.Ya., kand. geograf. nauk, nauchnyy red.

[Geology and oil and gas potentials of the south of the U.S.S.R.; Kara-Bogaz-Gol (Gulf) region (eastern part of the Middle Caspian oil- and gas-bearing basin).] Geologiia i neftegazonosnost' iuga SSSR; Prikarabozaz'e (vostochnaia chast' Srednekaspiiskogo neftegazonosnogo basseina). Leningrad, Nedra, 1964. 300 p. (Trudy Nauchno-issledovatel'skoy laboratorii geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti no.12).

SHOLOKHOV, Ye.

A book on the economics of state farms ("For highly productive and profitable work on state farms." I.E.Kantyshev. Reviewed by E.Sholokhov). Vop.ekon.no.8:138-139 Ag '56. (State farms) (MLRA 9:9)
(Kantyshev, I. E.)

AVERKIYEV, A.S., red.; AGEYEV, Ya.P., dots., otv. red.; AREF'YEV, V.A., dots., kand. ekon. nauk, red.; DEMIDOV, S.F., akademik, red.; KARSHIN, V.Ye., dots., red.; KOGAN, A.Ya., starshiy prepodav., red.; MAKHALOV, V.I., starshiy prepodavatel', red.; PITAYEVSKIY, P.I., prof., red.; SLOBODIN, V.M., prof., red.; SHOLOKHOV, Ye.I., red.

[Problems in the new system of agricultural planning]Voprosy novogo poriadka planirovaniia sel'skogo khoziaistva; trudy. Kyibyshev, Kuibyshevskii planovoi in-t, 1961. 419 p. (MIRA 15:12)

1. Mezhvuzovskaya nauchnaya konferentsiya, Kuibyshev, 1960. 2. Zamestitel' predsedatelya Kuybyshevskoy oblastnoy komissii (for Averkiyev). 3. Kuybyshevskiy planovyy institut (for Ageyev, Makhalov, Karshin). 4. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina i Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazev (for Demidov). 5. Ural'skiy filial Akademii nauk SSSR (for Slobodin). 6. Zamestitel' nachal'nika otdela sel'skogo khozyaystva i zagotovok Gosudarstvennogo planovogo komiteta Soveta Ministrov RSFSR (for Sholokhov).

(Agricultural policy)

SHOLOKHOV, Yu., inzhener.

Pamphlet on truck dumpers. Muk.-elev.prom. 21 no.11:3 of cover N '55.
(MLRA 9:4)

1.Novosibirskiy trest Glavmuki.
(Grain--Transportation) (Dumping appliances)

SHOLOKHOV, Yu.

Loading flour into barges. Muk.-elev.prom.22 no.3:24 Mr '56.
(MLRA 9:7)

1.Novosibirskiy trest Glavmuki.
(Flour--Transportation) (Loading and unloading)

SHOLOKHOV, Yu., inzhener.

Refined grinding process applied to milling high-quality flour at Prokop'yevsk Flour Mill No.8. Muk.-elev.prom.22 no.12:14-16 D '56. (MLRA 10:2)

1. Novosibirskiy trest Rosglavmuki.
(Prokop'yevsk--Flour mills)

SHOLOKHOV, Yu., inzhener.

Assembly of drying and cleaning towers. Muk.-elev.prom. 23 no.3:29 Mr '57. (MLRA 10:5)

1. Novosibirskiy trest Rosglavmuki.
(Grain-handling machinery)

SHELOKHOV, Yu., inzhener.

Using a manometric thermometer in controlling grain drying.
Muk.-elev.prom. 23 no.5:27-28 My '57. (MLRA 10:9)

1. Novosibirskiy trest Rosglavmuki.
(Grain--Drying) (Thermometers)

SHOLOKHOV, Yu.

Grain testing station. Muk.-elev. prom. 23 no.6:22 Je '57.
(MLRA 10:9)

1. Novosibirskoye oblastnoye upravleniye khleboproduktov.
(Grain testing)

[illegible], Yu.

They organized grain cleaning as a flow operation. Muk.-elev.prom. 23 no.7:22 Jl '57. (MLRA 10:9)

1. Novosibirskoye oblastnoye upravleniye khleboproduktov.
(Grain--Cleaning)

KLEYNER, Yu.M.; KUZNETSOV, Yu.Ya.; SHOLOKHOV, V.V.

Methods for detailed structural and geological studies in Ustyurt.
Sov. geol. 8 no.3:107-110 '65. (MIRA 18:5)

1. Vsesoyuznyy aerogeologicheskiy trest i Nauchno-issledovatel'skaya laboratoriya geologicheskikh driteriyev otsenki perspektiv nefte-gazonosnosti.

FREYDIN, A.S.; SHOLOKHOVA, A.B.; KROL', M.S.; BEL'FER, S.I.

Use of synthetic adhesives based on phenol-formaldehyde resins in bonding asbestos cement. Plast.massy no.6:42-46 '60.
(MIRA 13:11)

(Asbestos cement) (Adhesives)
(Phenol condensation products)

15 11 24

S/191/60/000/009/004/010
B013/B055

AUTHORS: Sholokhova, A. B., Freydin, A. S., Gurman, I. M., Rass, F.V.

TITLE: Use of Synthetic Resins for Bonding Asbestos Cement. Adhesives Based on Epoxy Resins

PERIODICAL: Plasticheskiye massy, 1960, No. 9, pp. 17 - 21

TEXT: The present publication treats the development of epoxy-resin base adhesives for asbestos cement. The working methods applied have been described previously. The experiments were mainly carried out using ЭД-6 (ED-6) and ЭД-5 (ED-5) epoxy resins. The epoxy resins of types ЭДФ-1 (EDF-1) and ЭДФ-3 (EDF-3) were used in some tests. The tests showed that in spite of the strength and stability of the adhesive joints (Table 1), adhesives based on ED-6 and ED-5 with polyethylene amine as hardener are not recommendable, since the high initial viscosity of these adhesives renders them uneconomic in use. In all subsequent tests therefore, the residue from hexamethylene diamine distillation was used as hardener. The following additives were tested with a view to improving certain characteristics: styrene, dibutyl phthalate, МГФ-9 (MGF-9) and

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ТГМ-3 (TGM-3) polyester and Kukersol' varnish (Table 2). From the technical and economic standpoint cement proved the most suitable filler. Compounds with MGF-9 and TGM-3 polyester acrylate resins (corresponding to ЭПЦ-1 (EPTs-1) and ЭПЦ-2 (EPTs-2)) were found to be the best adhesives for industrial purposes. The most characteristic properties of an adhesive (under otherwise constant conditions) are increasing bond strength (Table 3) and bonding property (Table 4). Since these factors are dependent on the temperature of the medium, tests were carried out at 18 - 20°C and 30 - 35°C. It may be seen from Table 3 that a sufficient bond strength is attained at 30°C after pressing for 6 h and at 18°C after pressing for 8 h. Maximum bond strength, however, is reached only after 24 h. Table 4 shows that the adhesive retains its bonding property for 2 - 3 h after being applied to the surface. The required bond strength was attained in as little as 1.5 h by accelerating the bonding process by moderate heating (60-100°C) (Table 5). The strength of adhesive joints was tested by natural and accelerated aging (Figs.2 and 3) which caused destruction of material but not of adhesive joints. Similar results were obtained in tests of weather resistance (Fig.4a) and resistance to water (Fig.4b). The positive results obtained with small samples were confirmed

at bonding of large panels. These tests were carried out under the supervision of L. M. Koval'chuk and V. V. Paturoyev. At present, bonding of asbestos-cement panels is being tested on an experimental building in Lyubertsy. M. N. Plungyanskaya is mentioned. There are 5 figures, 5 tables, and 1 Soviet reference.

/C

GUBENKO, A.B.; FREYDIN, A.S.; SHOLOKHOVA, A.B.

Application of synthetic adhesives to the gluing of wood fiber tiles to various materials. Plast.massy no.4:30-33 '61. (MIRA 14:4)

(Adhesives) (Building materials)

1.2200 2208 2808 only 26993 S/191/61/000/009/003/007
151124 B110/B218

AUTHORS: Freydin, A. S., Sholokhova, A. B., Krol', M. S.

TITLE: Applicability of accelerators in gluing asbestos cement and aluminum with phenol glues

PERIODICAL: Plasticheskiye massy, no. 9, 1961, 20 - 24

TEXT: The reduction of hardening temperatures of phenol resins by means of accelerators is important for gluing asbestos cement since it is subject to cracking at high temperatures. The authors suggested alcoholates, glycerates, phenolates of Ca and Zn, as well as MnO_2, PbO_2, $(NH_4)S_2O_8$, $KMnO_4$, $PbCrO_4$, $ZnCrO_4$, Na_2CrO_4, $Na_2Cr_2O_7$ as accelerators. They studied the use of various accelerators for gluing asbestos cement with aluminum alloys by means of phenol glues. They tested: (a) alkalis: KOH, NaOH, $Ca(OH)_2$, $MgO-MgCl_2$ mixture, borax; (b) resorcinol, resorcinol-formaldehyde resin ФР-12(FR-12); (c) diphenol ketone resins on schistous raw material basis: ДФК-1А(DFK-1A); ДФК-7П(DFK-7P); (d) weak acids: phenyl urethanyl sulfochloride (PUSC), oxymethyl phosphinic acid (OMPA), its Na monosalt,

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boric acid; (e) various fillers: potentially active fillers: vibration-crushed coke, sulfocarbon, Fe powder, gypsum. They used as glues: (1) phenol formaldehyde resin "Б"("B") with 10 parts by weight of wood dust; (2)ЦНИИМОД-1(TsNIIMOD-1) resin and bakelite varnish. Asbestos sheets 8-9mm thick containing 7-12% H_2O were glued together for cleaving tests, and АМг-АП(AMg-AP) aluminum 2 mm thick for shear tests. The hardening rate was examined at 110-112°C. The hardening temperature of 150°C corresponded to a temperature of the joint in asbestos cement of 120-125°C, in aluminum of 150°C. The specimens were tested for durability of the gluing on test machines of the type Amsler or Shopper in dry state, as well as after 24 hr moistening with H_2O and acetone. PUSC, OMPA, and mono-Na-OMPA destroy the asbestos cement surface during resin hardening. Fillers do not accelerate hardening. The fillers gypsum and $MgO-MgCl_2$ mixture, which react with the methylol groups of resin, bind the cement and reduce adhesion. $Ca(OH)_2$, $KMnO_4$, resorcinol-formaldehyde resin FR-12, and the diphenyl ketone resins DFK-1A and DFK-7P were found to be suited best. Among them, $KMnO_4$ and

Applicability of accelerators... 26993

FR-12 (with 13% paraformaldehyde) were most efficient. 10-20% of alkali considerably accelerates hardening, but reduces the water resistance strongly. An addition of $\leqslant$ 10% $Ca(OH)_2$ does not affect the water resistance, $Ca(OH)_2$ $\geqslant$3-5% increases the viscosity and reduces the service life of the glue. With 5% $Ca(OH)_2$, hardening takes 13 min. The cleaving strength of asbestos cement is 26 kg/cm^2 in dry state, 30 kg/cm^2 after 24 hr moistening. Optimum results were obtained by FR-12 with $KMnO_4$. Similar results were obtained with other resorcinol resins such as ДМ-12(DM-12) synthesized at the NIIPM, and ДФК-1А (DFK-1A) produced by A. Ya. Aarna, K. R. Kiysler (Ref. 10: Goryuchiye slantsy, Byull. nauchno - tekhn. inform. (Tallin), No. 1, 37 (1961)) at the Tallinskiy politekhnicheskiy institut (Tallin Polytechnic Institute); DFK-1A proved to be optimum. The glues are highly water-resistant. Open storage for $\leqslant$ 48 hr at 18-20°C after application improves the quality of the FR-12 + $KMnO_4$ gluing. Accelerators are inefficient with TsNIIMOD resin and bakelite varnish. For Al gluings, the "B" resin is modified to the quick-hardening ФЭ-10(FE-10) glue by means of epoxy resin ЭД-5(ED-5) or ЭД-6(ED-6). Good acceleration (from 8 to 1.5 min) was attained with 10% addition of di-phenyl ketone resin ДФК-7П(DFK-7P) to FE-10. 20% of 40% formalin and 1%

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concentrated soda lye should be added at the same time. The stable ФРЭ-10 (FRE-10) glue contains: phenol formaldehyde resin B, diphenyl ketone resin DFK-7P, epoxy resin ED-5 or ED-6, 40% formalin, and wood dust, and it is fully water-resistant like ФР(FR) (glue B and resin DFK-1A). Destruction always occurs in the asbestos cement, not in the glued joint. Three months' heating at 80-100°C does not reduce the strength which speaks in favor of the stability of the resulting polymer systems. Protraction of the optimum hardening time (1.5-2.5 min) to 5 min reduces strength. The authors assume that the hardening of modified phenol glues БФ-2(BF-2), БК-32-200(VK-32-200), etc. is also accelerated by resins of the DFK type. Experiments concerning the effect of acceleration on aging yielded constant strength after 40 and 80 cycles. There are 3 figures, 3 tables, and 10 references: 4 Soviet and 6 non-Soviet. The three most important references to English-language publications read as follows: Ref. 3: US Patent 1693461; Ref. 5: Adhesive and resins, 5, 70 (1956); Ref. 8: US Patent 2855382.

Card 4/6

LEVIN, N.I., kand.tekhn.nauk; FREYDIN, A.S., kand.tekhn.nauk; SHOLOKHOVA, A.B., inzh.; NOL'DE-STARCHENKO, A.S., inzh.

Gluing of cellular concrete wall panels. Stroi.mat. 9 no.9:16-17 S '63. (MIRA 16:10)

ACCESSION NR: AP4018171 S/0191/64/000/003/0063/0064

AUTHOR: Gubenko, A. B.; Freydin, A. S.; Sholokhova, A. B.; Chapskiy, K. A.

TITLE: Application of polyester malcate adhesive in preparing curved light transparent panels of fiberglass

SOURCE: Plasticheskiye massy*, no. 3, 1964, 63-64

TOPIC TAGS: fiberglass panel, production, adhesive, fiberglass cementing, polyester fiberglass, polyester maleate PN-1, phenol formaldehyde resin KV-3, fiberglass aluminum cementing, epoxy adhesive EPTs-1

ABSTRACT: Transparent fiberglass panels may be prepared by butting flat and corrugated sheets with an adhesive in a high frequency current field and cementing the panels by vacuum forming and simultaneously inserting the foam plastic frame. The polyester fiberglass may be cemented by hot or cold curing using polyester maleate resin PN-1 with cumene hydroperoxide or an adhesive based on phenol formaldehyde resin KV-3. The fiberglass and not the adhesive seam are ruptured,

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ACCESSION NR: AP4018171

the rupture occurring at a greater depth with PN-1 and the seam being lighter than with KV-3. An epoxy adhesive such as EPTs-1 may be used in cementing the fiberglass to aluminum. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 27Mar64 ENCL: 00

SUB CODE: MA NO REF SOV: 002 OTHER: 000

Card 2/2

ACCESSION NR: AP4039949 S/0191/64/000/006/0044/0045

AUTHOR: Aarna, A. Ya.; Kiysler, K. R.; Freydin, A. S.; Sholokhova, A. B.

TITLE: Synthetic adhesive based on DFK resins from dihydric phenols from oil shale.

SOURCE: Plasticheskiye massy*, no. 6, 1964, 44-45

TOPIC TAGS: DFK resin, diphenolketone resin, adhesive, cement, synthesis dihydric phenol, alkylated resorcinol, condensation, curing, application, commercial production

ABSTRACT: The technology of a two-stage condensation of alkylated resorcinols to produce adhesive resins was worked out. The bulk of the phenols from tar waters (dihydric phenols whose empirical formula approximates that of dimethylresorcinol), when condensed with formaldehyde in the presence of acetone, form stable high quality DFK (diphenolketone) resins. These resins can be cured at room temperature with formalin or at higher temperatures with urotropine. The mechanism proposed for the condensation of alkylated resorcinols with formaldehyde includes the formation of the ether bond as shown by the equations:

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ACCESSION NR: AP4039949

$$Ar(CH_2)_n(OH)_2 + HCHO = (CH_2)_n(OH)_2ArCH_2OH$$
$$(CH_2)_n(OH)_2ArCH_2OH + Ar(CH_2)_n(OH)_2 =$$
$$= (CH_2)_n(OH)_2ArCH_2—O—Ar(OH)(CH_2)_n + H_2O$$

where Ar is an aromatic ring and n = 1-3. The use of resin DFK-1A for cementing wood, asbestos and different plastics will be shown in subsequent communications. The commercial output of DFK has been arranged at the Slantsekhimicheskom kombinate Kiviy*li v Estonskoy SSR (Shale Chemical Combine in Estonian SSR). Orig. art. has: 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00

SUB CODE: MT NO REF SOV: 000 OTHER: 000

Card 2/2

[illegible], A. Ya.; [illegible]; K. R.; FREY[illegible]N, A. [illegible]; [illegible]HOLCKHOVA, A. N.

[illegible] adhesives based on DF[illegible] resin [illegible] obtained from the diatomic [illegible] of [illegible] shales. Plast.massy no.5:44-45 '64. (MIRA 18:4)

GUBENKO, A.B.; FR[illegible]N, A.S.; SHOLOKHOVA, A.B.; [illegible], A.Ya.; [illegible]ER, K.R.

[illegible] adhesives based on "[illegible]" resins produced from diatomic [illegible] phenols. Plast.massy no.7:59-[illegible] '6[illegible]. (MIRA 17:10)

L 54965-65 EWT(m)/EPF(c)/EWA(d)/EWP(v)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 WW/RM

ACCESSION NR: AP5012113 UR/0191/65/000/005/0072/0074
678.01:539.4:678.046.36

32
31
B

AUTHOR: Sholokhova, A. B.; Tolstaya, S. N.; Freydin, A. S.

TITLE: Effect of adsorption modification of the filler on the strength of polymer compositions

SOURCE: Plasticheskiye massy, no. 5, 1965, 72-74

TOPIC TAGS: polymer composition, mineral filler, surfactant adsorption, synthetic adhesive, adhesive polymer, adhesive strength, polyester resin, diphenolic resin, apoxy resin, marshalite, silicalcite, cross linking

ABSTRACT: The properties of mineral fillers are changed considerably by the adsorption of oriented layers of surface active agents (SAA) onto the surface of their particles. The object of the study was to determine the manner in which such treatment of fillers affects the properties of synthetic adhesives, which usually consist of filled systems. Polyester, diphenolic, and epoxy adhesives were studied. The effectiveness of the action of SAA in adhesive polymer systems and its optimum magnitude was determined from the maximum of cross-linking on model systems, the strength of the polymer composition in stretching and

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L 54965-65
ACCESSION NR: AP5012113

compression, the strength of the adhesive composition in shearing tests, and the magnitude of the internal stresses. The model adhesive systems used were suspensions of fillers (marshalite and silicalcite) in solutions of resins in suitable solvents (polyester resin PN-1 in styrene, diphenolic resin DFK-1A in acetone). It was found that the introduction of SAA into filled adhesive systems increases their cohesive and adhesive strength, and, most importantly, sharply decreases the internal stresses, thus increasing the durability of adhesive joints and their stability to the action of temperature and humidity. The optimum amounts of SAA can be determined by studying cross-linking on model systems. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, OC

NO REF SOV: 011 OTHER: 000

Card 2/2

SHCLOKHOVA, A.B.; TOLSTAYA, S.N.; FREYDIN, A.S.

Effect of the adsorption modification of fillers on the strength properties of polymeric compositions. Plast. massy no.5: 72-74 '65. (MIRA 18:6)

L 10409-67 EWT(m)/EWP(v)/EWP(j) IJP(c) WW/RM
ACC NR: AP6029903 (A) SOURCE CODE: UR/0413/66/000/015/0068/0068

22

AUTHORS: Freydin, A. S.; Sholokhova, A. B.

ORG: none

TITLE: A method for preparing a glue. Class 22, No. 184381

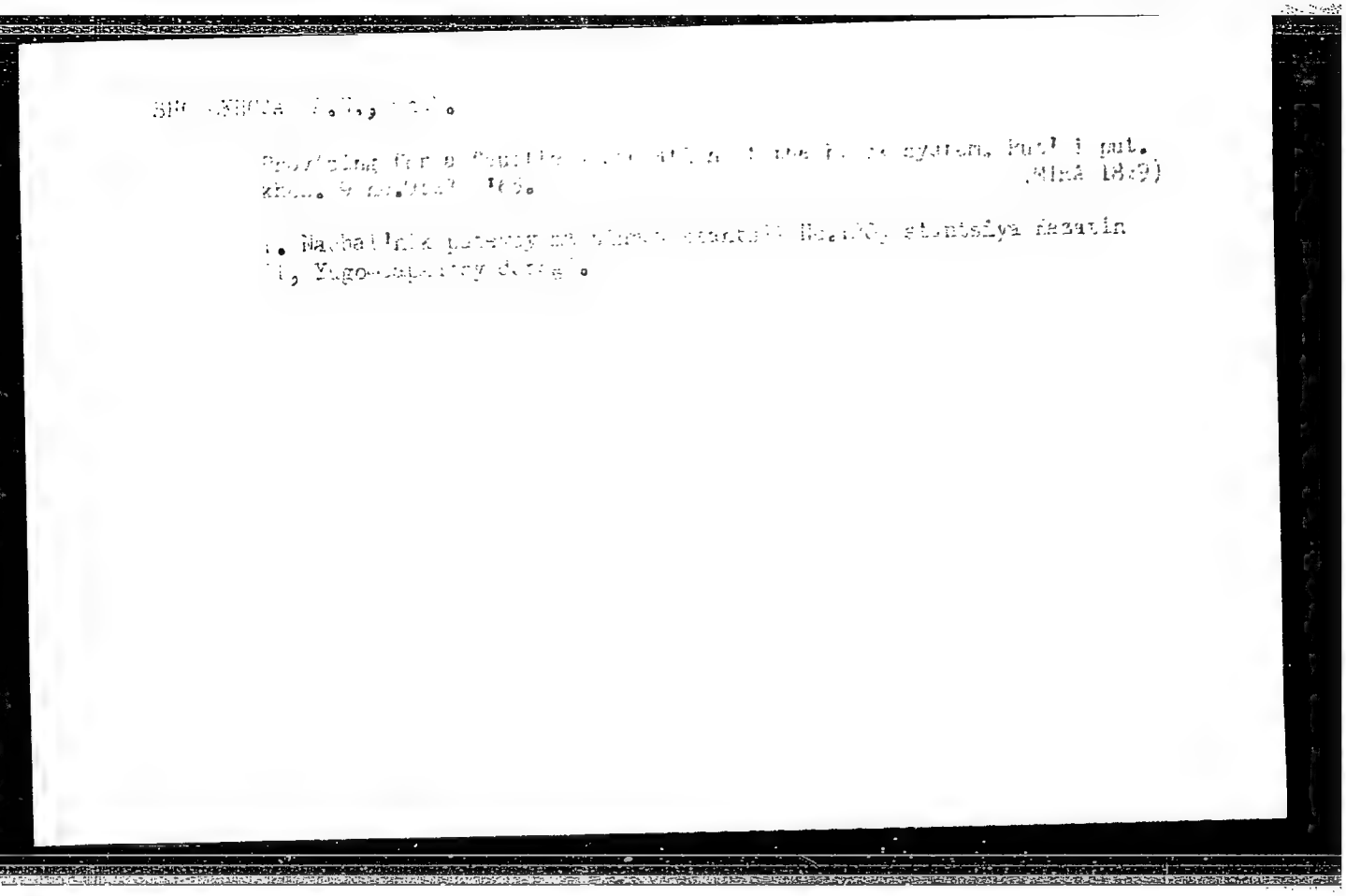
SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 68

TOPIC TAGS: glue, epoxy, resin

ABSTRACT: This Author Certificate presents a method for preparing a glue as described in Author Certificate No. 140516. To improve the physico-mechanical properties of the glue, a low viscosity thiokol in the amount of 50 to 100 parts by weight is introduced into its composition. In an alternate method an epoxy resin in the amount up to 10 parts by weight is added to the composition of the glue.

SUB CODE: 11/ SUBM DATE: 18Jun65

Card 1/1 bjp UDC: 668.395.633-9:678.684.82



SHOLOKHOVA, A.N.

We have reinforced concrete railroad ties on our line. Put' i put. khoz. no.3:8-9 Mr '58. (MIRA 11:4)

1. Nachal'nik Berdichevskoy distantsii Yugo-Zapadnoy dorogi.
(Berdichev District--Railroads--Ties, Concrete)

SHEMYAKIN, Viktor Nikolayevich, kand.tekhn.nauk. Prinimali uchastiye: MELENT'YEV, L.P., kand.tekhn.nauk; SHOLOKHOVA, A.N.. SOKOLOV, A.N., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Track maintenance on reinforced concrete ties] Tekushchee soderzhanie puti na zhelezobetonnykh shpalakh. Moskva, Gos. transpor.zhel-dor.izd-vo, 1959. 61 p. (MIRA 12:9)

1. Nachal'nik Berdichevskoy distantsii puti Yugo-Zapadnoy dorogi (for Sholokhova).
(Railroads--Ties, Concrete)

SHOLOKHOVA, G.I. (Yaroslavl'); VASILEVSKIY, M.E., professor, zaveduyushchiy.

Hemodynamics in acute rheumatism. Klin.med. 31 no.7:26-31 Jl '53.
(MLRA 6:9)

1. Kafedra gospital'noy terapii Yaroslavskogo meditsinskogo instituta.
(Rheumatic fever) (Blood pressure)

SHOLOKHOVA, G.I. (Ryazan')

Erysimin treatment of cardiac insufficiency. Klin.med. 35 no.5: 56-61 My '57. (MLRA 10:8)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Ya.Ye.Shapiro) Ryazanskogo meditsinskogo instituta imeni akad. I.P.Pavlova (dir. - prof. L.S.Sutulov)

(HEART DISEASES, ther.
erysimine)
(CARDIAC GLYCOSIDES, ther. use
erysimine in heart dis.)

SHOLOKHOVA, G. I.: Master Med Sci (diss) -- "The use of erysimin to treat patients with cardiac insufficiency". Ryazan', 1958. 22 pp (Ryazan' Med Inst im Acad I. P. Pavlov), 200 copies (KL, No 7, 1959, 130)

MILOSLAVSKIY, Ya.I.; ARDAMATSKIY, N.A.; IVANOV, Yu.V.; LIKHVANTSEV, V.A.; LEGKUN, A.M.; MASLENNIKOVA, A.I.; CHERNYSHEVA, M.I.; TYUNINA, Ye.A.; SHOLOKHOVA, G.I. (Ryazan')

Urinary excretion of 17-ketosteroids and 17-hydroxy corticosteroids in healthy people. Probl. endok. i gorm. 9 no.3:76-80 My-Je '63. (MIRA 17:1)

1. Iz kafedry fakul'tetskoy terapii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent N.A. Ardamatskiy) Ryazanskogo meditsinskogo instituta imeni I.P. Pavlova.

BELOV, I.I.; SIDORIN, V.G.; KORZHIKHINA, T.P.; SHOLOKHOVA, N.P.; ZHURAVLEV, D.P., red.; GAVRILOV, A.N., red.; FEDOROV, N.A., red.; IZHBOLDINA, S.I., tekhn. red.

[Risen from ruins; documents and papers about the reconstruction and development of Volgograd, 1943-1960]Podniatyi iz ruin; sbornik dokumentov i materialov o vosstanovlenii i razvitii Volgograda, 1943-1960 gg. Volgograd, Volgogradskoe knizhnoe izd-vo, 1962. 369 p. (MIRA 16:2)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Volgogradskiy oblastnoy komitet. Partiynyy arkhiv.
(Volgograd--Civic improvement)

SHOLOKHOVA, R.N., tekhnik.

Countercurrent filter for water conditioning. Energetik 5 no.4:14-15 Ap '57. (MLRA 10:6)
(Feed-water purification)

KARMISHIN, A.V.; SHOLUKHOVA, R.S.

Some formulas for the reduction of algebraic determinants to a polynomial form. Vop.mekh. no.193:3-10 '61. (MIRA 14:8)
(Functions, Algebraic)

ORLENKO, N.I., otvetstvennyy red.; RYCHKOVA, Ye.M., red.; SHOLOKHOVA, T.V., red.

[A catalog of cutting tools] Katalog rezhushchie instrumenty. [Leningrad] TSentr. otdel standartizatsii i unifikatsii, 1956. 69 p. (Normali Ministerstva transportnogo mashinostroeniia SSSR, nos.03/13) (MIRA 11:1)

1. Moscow. Vsesoyuznyy proyektno-tekhnologicheskiy institut. Leningradskiy filial.
(Cutting tools)

SHOLOKHOVA, V.A.

AUTHOR : [illegible]

TITLE : Cultivated Plants. Fruits. Berries. Nuts. Tea

PERIOD : Referat. Zhur., Biol., No. 1, 1959, No. 3817

AUTHOR : Sholokhova, V.A.

INST. : Nikitsk State Botanical Garden

TITLE : Clonal Selection of Lemon on the Southern Shore of the Crimea

SOURCE : Tr. Nikitsk. ordena trud. krasn. znam. gos. bot. sada 1957, No. 5-6, 29-34

ABSTRACT : In the years 1949 - 1951, on the southern seacoast of the Crimea, a considerable number of lemon plants were imported from the Georgian Socialist Soviet Republic. As a result of a three year inspection and study of 15,000 plants, 22 trees were exposed, distinguished by their productivity (80 - 180 lemons per tree), and by large sizes and good qualities of fruits as well as the prickliness of the branches. Selected were also forms supporting well young fruit. The work was performed in the Nikitski botanical garden.

BIBL: 1 ill

SHOLOKHOVA, E.D.

USSR/Geophysics

Card 1/1 : Pub. 22 - 19/44

Authors : Rodionov, S. F.; Pavlova, E. N.; Sholokhova, E. D.; and Fishkova, L. M.

Title : Yearly variations of infrared radiation of the night sky

Periodical : Dok. AN SSSR 98/6, 957-960, October 21, 1954

Abstract : The results of experiments with infrared radiation of the night sky, conducted on Mount Elbrus during 1948-1953, are presented. Four Russian references (1948-1951). Graphs.

Institution : Leningrad State University im. A. A. Zhdanov; Elbrus Complex Scientific Expedition of the Acad. of Scs. of the USSR

Presented by: Academician V. G. Fesenkov, April 19, 1954

RODIONOV, S.F., SHOLOKHOVA, YE.D.

Investigation of the brightness of the sky in the luband during the solar eclipse of June 30, 1954. Dokl. AN SSSR 105 no.4:676-679 D '55. (MLRA 9:3)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo universiteta imeni A.A. Zhdanova. Predstavleno akademikom A.A. Lebedevym.

(Eclipses, Solar) (Sky, Color of)

SHOLOKHOVA, Ye.D.; FRISH, M.S.

Luminosity of the crepuscular sky in the region of 1 micron. Dokl. AN SSSR 105 no.6:1218-1220 D '55. (MLRA 9:4)

1.Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta imeni A.A.Zhdanova.
(Sky, Color of) (Sunset phenomena)

Sholokhova, Ye. D.

AUTHORS: Smolenskiy, G. A., Isupov, V. A., Agranovskaya, A. I., 57-11-15/33
Sholokhova, Ye. D.

TITLE: Non-Seignette-Electrical Phase Transition in Solid Solution in $(Ca,Sr)(Ti,Zr)O_3$ and $Na(Nb,Ta)O_3$ Systems (Nesegnetoelektricheskiye fazovyye perekhody v tverdykh rastvorakh, obrazuyushchikhsya v sistemakh $(Ca,Sr)(Ti,Zr)O_3$ i $Na(Nb,Ta)O_3$).

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 11, pp.2528-2534 (USSR)

ABSTRACT: The purpose of this work was to explain the character of these phase transitions. Based on the experiments as well as on the explanations given you can say that in solid $(Ca,Sr)(Ti,Zr)O_3$ - solutions and especially in solid $(Ca,Sr)(Ti,O_3)$-solutions ordinary crystallographic transitions take place and that,neither calcium-titanate nor the mentioned solid solutions are anti-seignette-electrics. The authors are of opinion that in natrium-niobate at 480° and 640°C as well as in natrium-tantalate at 475°C, and in consequence of this also in solid $Na(Nb,Ta)O_3$ -solutions ordinary crystallographic transitions take place. Actually the phase transitions at 480° and 640° in natrium-niobate displace into the range of lower temperatures in the case of a substitution of a natrium ion, smaller according to its measurements,by the greater potassium ion. The authors conclude that natrium-tantalate is not a seignette-electric. There are 7 figures and

Card1/2

SHOLOKHOVA, Ye. D.

Smolenskiy, G. A., V.A. Isupov, A.I. Agranovskaya and Ye. D. Sholokhova, Leningrad, Institut khimii silikatov AN SSR (Institute for Silicate Chemistry, AS USSR) "Polarization and Dielectric Losses in Several Solid Solutions of the First and Second Classes"

(The Physics of Dielectrics; Transactions of the All-Union Conference on the Physics of Dielectrics) Moscow, Izd-vo AN SSSR, 1958. 245 p. 3,000 copies printed.

This volume publishes reports presented at the All-Union Conference on the Physics of Dielectrics, held in Dnepropetrovsk in August 1956, sponsored by the "Physics of Dielectrics" Laboratory of the Fizicheskiy institut imeni Lebedeva An SSSR (Physics Institute imeni Lebedev of the AS USSR), and the Electrophysics Department of the Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University).

48-22-3-2/30

AUTHORS: Smolenskiy, G.A., Isupov, V.A., Agranovskaya, A. I., Sholokhova, Ye. D.

TITLE: Polarization and Dielectric Losses in Some Solid Solutions of the First and Second Type. (Polyarizatsiya i dielektricheskiye poteri v nekotorykh tverdykh rastvorakh pervogo i vtorogo roda) Theses of the Lecture. The Complete Article is Published in ZhTF, 1957, Nr 27, p. 2528 and DAN USSR, 1957, Nr 113, pp. 803 and 1053 (Tezisy doklada. Podrobnaya stat'ya opublikovana v ZhTF, Nr 27, p. 2528, 1957, DAN SSSR, Nr 113, pp. 803, 1053 (1957)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958, Vol. 22, Nr 3, p. 236 (USSR)

ABSTRACT: 1) The results obtained by the investigation of the polarization and the dielectric losses of polycrystalline samples of some solid solutions of the first and second type are given in the lecture.

2) The results obtained by the investigation of the systems of solid solutions (Sr, Ca)(Ti, Zr)O_3 are given.

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48-22-3-2/30

Polarization and Dielectric Losses in Some Solid Solutions of the First and Second Type. Theses of the Lecture. The Complete Article is Published in ZhTF, 1957, Nr 27, p. 2528 and DAN USSR, 1957, Nr 113, pp. 803 and 1053

3) The system of the solid solutions $BaTiO_3$——$LaAlO_3$ was investigated.
4) Solid solutions of the first type: $(Sr, Ca)_2Ta_2O_7$, $(Sr, Ba)_2Ta_2O_7$, $Sr_2(Ta, Nb)_2O_7$ were investigated on the basis of strontium-pyrotantalate.
5) The results obtained by the provisional investigation of the solid solutions of the second type are given: $BaTiO_3$—— $BaTa_2O_6$ and $BaTiO_3$——$BaNb_2O_6$.

ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of the Chemistry of Silicates, AS USSR)

1. Crystals--Polarization 2. Alloys--Dielectric properties

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88695

94300 (3nJ 1043, 1155)

S/058/60/000/010/004/014
A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 10, p.254, # 27014

AUTHORS: Smolenskiy, G.A., Agranovskaya, A.I., Sholokhova, Ye.D.

TITLE: Ferroelectric Properties of Solid $BaTiO_3$-$LaAlO_3$ Solutions

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1959, No. 2 (7), pp. 101 - 106

TEXT: Ferroelectric properties of solid solutions in the $BaTiO_3$-$LaAlO_3$ system were investigated. In this system solid solutions are formed with the structure of perovskite, possessing ferroelectric properties at the high content of barium titanate. The Curie point and dielectric constant in the peak of solid solutions are sharply decreasing with an increase in the content of lanthanum aluminate. No spontaneous polarization occurs in lanthanum aluminate and in solid solutions containing more than 16 molar % $LaAlO_3$. These experimental data corroborate the viewpoint that central ions in ferroelectrics must have the structure of inert gases after losing s- and d-electrons, i.e., must form from atoms with the

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Ferroelectric Properties of Solid $BaTiO_3$-$LaAlO_3$ Solutions

incomplete penultimate electron shell. Solid solutions containing 10 - 12.5 molar % $LaAlO_3$ are characterized by the sloping temperature relations of ε, which is explained by the fluctuation of composition in solid solutions.

Authors' conclusions

Translator's note: This is the full translation of the original Russian abstract.

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36953
S/196/62/000/007/005/007
E032/E514

3.5150

AUTHORS: Meyngard, P.N., Popov, O.I. and Sholokhova, Ye.D.

TITLE: A recording photoelectric apparatus for the measurement of the transparency of air in the visible part of the spectrum

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.7, 1962, 5, abstract 7V22. (Sb. "Aktinometriya i atmosfern. optika". L., Gidrometeoizdat, 1961,152-159)

TEXT: The photoelectric apparatus ФМ-45 (FM-45),in which the light flux is measured at two distances, was developed for the measurement of the absolute value of the transmission coefficient of air. A modulated light beam produced by a hot-filament lamp (6 V, 7.7 W) is divided into two parts by a system of lenses and mirrors. One of them is focused into a parallel beam and is passed through the layer of the atmosphere, finally reaching the photocell (type СЦВ-51, STsV-51). The second part of the beam reaches the photocell directly and is used as the comparison beam. The two beams are shifted in phase by 180°. The photocell output,which is proportional to the

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A recording photoelectric ... S/196/62/000/007/005/007
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difference between the two light fluxes, is fed into an a.c. amplifier with a synchronous detector and is then recorded by the pen recorder ЭПП-09 (EPP-09). The latter records the transmission coefficient of air on a chosen scale for a given measuring base L. The pen recorder scale is linear with respect to the attenuation coefficient of air. The amplifying part FM-45 ensures measurements of the transmission coefficient with an absolute error of ±1%. The maximum measuring base is 0.5 km. The measurements can be carried out at all times of the day, both for high and average turbidities of the atmosphere (meteorological visibility range between 0.5-1 and 20-30 km). The optical and electrical parts are described and the results of field tests are reported.
4 figures, 7 references.

ASSOCIATION: GOI, Leningrad

[Abstracter's note: Complete translation.]

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POPOV, O.I.; FEDOROVA, Ye.O.; SHOLOKHOVA, Ye.D.

Transparency measurement of the lower atmosphere in the ultraviolet and visible regions of the spectrum. Izv. AN SSR. Ser. geofiz. no. 3:478-486 Mr '61. (MIRA 14:2)

1. Opticheskiy institut im.S.I. Vavilova.
(Atmospheric transparency)

SHOLOKHOVA, Ye.D.; FEDOROVA, Ye.O.

Measurement of scattered sky radiation in a field of 1 to 3.5 microns at altitudes of 15 to 17 km. Izv. AN SSSR. Ser. geofiz. no.11:1671-1672 N '62. (MIRA 15:11)

1. Gosudarstvennyy opticheskiy institut im. S.I. Vavilova.
(Tashkent region--Solar radiation--Spectra)

SHOLOKHOVICH, F.A.

Linear dynamic systems. Izv.vys.ucheb.zav.; mat. no.1:249-257 '57. (MIRA 12:10)

1. Ural'skiy gosudarstvennyy universiteta im. A.M.Gor'kogo.
(Functional analysis)

SHOLOKHOVICH. F. A. Cand Phys-Math Sci -- (diss) "Linear dynamic systems in Banach space." Sverdlovsk, 1958. 8 pp (Ural State Univ im A. M. Gor'kiy), 120 copies. Bibliography at end of text (14 titles). (KL, 13-58, 93)

16(1)

AUTHOR: Sholokhovich, F.A. SOV/155-58-2-21/47

TITLE: On the Almost-Periodicity of the Solutions of a Linear Operator Differential Equation (O pochti periodichnosti resheniy lineynogo operatorno-differentsial'nogo uravneniya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 2, pp 100-102 (USSR)

ABSTRACT: Theorem: In the Hilbert space H let be given the differential equation

$$\frac{dp}{dt} = Ap, \quad p \in H,$$

where A is a linear completely continuous operator. If all solutions are bounded, then all solutions are almost-periodic. Application: If all solutions of

$$\varphi_t'(x,t) = \int_a^b k(x,s)\,\varphi(s,t)\,ds$$

are bounded, where $\int_a^b \int_a^b k^2(x,s)\,dx\,ds < \infty$, then they all are

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On the Almost-Periodicity of the Solutions of a Linear Operator Differential Equation SOV/155-58-2-21/47

almost-periodic.

The author thanks E.A.Barbashin for the interest in the present paper.

There are 4 references, 2 of which are Soviet, 1 English, and 1 Hungarian.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni Gor'kogo (Ural's State University imeni Gor'kiy)

SUBMITTED: September 19, 1957

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AUTHOR: Sholokhovich, F.A.

SOV/20-120-1-10/63

TITLE: On the Connection Between a Linear Dynamic System and a Differential Equation in the Banach Space (O svyazi mezhdu lineynoy dinamicheskoy sistemoy i differentsial'nym uravneniyem v prostranstve Banakha) SSSR

PERIODICAL: Doklady Akademii nauk, 1958, Vol 120, Nr 1, pp 43-46 (USSR)

ABSTRACT: The author considers the differential equation

(1) $$\frac{dp}{dt} = Ap$$

on the one hand and the corresponding dynamic system

(2) $$f(p,t) = f(t)p$$

on the other hand. First problem : Investigation of the linear dynamic system (2) which is assumed to satisfy the following axioms:

A_1. $f(p,0) = p$, i.e. $f(0) = I$ (identical operator)

A_2. $f\left[f(p,t_1),t_2\right] = f(p,t_1+t_2)$

A_3. $f(p,t)$ continuous

A_4. $f(p_1+p_2,t) = f(p_1,t) + f(p_2,t)$

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On the Connection Between a Linear Dynamic System and a Differential Equation in the Banach Space SOV/20-120-1-10/63

Second problem: Qualitative investigation of (1).
It is shown that in the case of a finite-dimensional space B both problems are equivalent, that, however, in the infinite-dimensional space the problem I is more general than the problem II.
There are 5 references, 4 of which are Soviet, and 1 American.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo (Ural State University imeni A.M.Gor'kiy)

PRESENTED: January 11, 1958, by I.G.Petrovskiy, Academician

SUBMITTED: November 13, 1956

1. Operators (Mathematics) 2. Differential equations 3. Dynamics 4. Topology

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BARBASHIN, Ye.A.; SHOLOKHOVICH, F.A.

Mapping a dynamic system into a dynamic system analytic with relations to time. Izv.vys.ucheb.zav.; mat. no.1:11-15 '60.
(MIRA 13:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova i Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Topology)

27310
S/199/61/002/004/006/007
B112/B108

16.8000 (1031, 1121, 1344) also 2406, 2606

AUTHORS: Mil'shteyn, G. N., and Sholokhovich, F. A.

TITLE: Almost-recurrent motions that are uniformly stable according to Poisson in a linear dynamic system

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 2, no. 4, 1961, 567 - 573

TEXT: According to M. V. Bebutov (Byulleten' MGU, matem., II, vyp. 5 (1941), 3 - 51) a motion $f(p,t)$ is called "almost-recurrent" if a relatively compact set of numbers $\tau(p,\varepsilon)$ exists for any $\varepsilon > 0$, such that $\varrho(p,f(p,\tau)) < \varepsilon$ holds for every point p if τ is contained in $\tau(p,\varepsilon)$. Bebutov calls a motion "uniformly stable according to Poisson" if a number t_o ($t_o > T$ or $t_o < -T$) exists for any two numbers $\varepsilon > 0$ and $T > 0$, such that $\varrho(f(p,t+t_o), f(p,t)) < \varepsilon$ holds for every t. The authors studied the "independence" of such motions within a linear dynamic system. They call a recurrent motion in a given dynamic system "independent" if a recurrent motion which is not almost-periodic exists in this system. The authors

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demonstrate that every almost-recurrent motion is stable according to Poisson, however, not vice versa. They also show that recurrent motions exist which are not uniformly stable according to Poisson. The problem whether every motion which is uniformly stable according to Poisson is recurrent, could not be solved. Two theorems on almost-recurrent motions are given: 1) A motion is almost-recurrent if there exists at least one point p_o of the motion for which a number $L(\varepsilon)$ exists for each $\varepsilon > 0$. $L(\varepsilon)$ determines a relatively compact set of numbers $\tau(\varepsilon)$ such that $\rho(p_o, f(p_o,\tau)) \leq \varepsilon$ holds if τ is contained in $\tau(\varepsilon)$. 2) If a motion is almost-recurrent, the set of numbers $L(p,\varepsilon)$ is finite for any limited trajectory arc if $\varepsilon > 0$ and if p belongs to the arc. There are 3 Soviet references.

SUBMITTED: March 25, 1960

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26173
S/044/61/000/006/012/019
C111/C222

16.4600

AUTHOR: Sholokhovich, F.A.

TITLE: On the spectrum of the generating operator of a linear dynamic system

PERIODICAL: Referativnyy zhurnal. Matematika, no.6, 1961, 86, abstract 6B 446 (Uch.zap. Ural'skogo un-ta, 1960, vyp.23, no.2, 42-53)

TEXT: Let $f(t)p$ be a linear dynamic system (l.d.s.), $p \in B$, B --real Banach space. The author proves some theorems on the spectrum of the generating operator of the l.d.s. which were announced without proof in an earlier paper of the author (R Zh Mat, 7720, 1958). It is well-known that the spectrum of an infinitely small generating operator A of the group $f(t)$ is included in a certain strip $\sigma_1 \leq \mathrm{Re}(\lambda) \leq \sigma_2$. A l.d.s. $f(t)$ is called uniformly asymptotically stable for $t \to \infty$ if $\lim_{t\to\infty} \|f(t)\| = 0$.

Theorem 5: If the continuous spectrum of the operator $f(t_1)$ is empty only for one single value $t_1 > 0$ then

$$\sigma_2 = \lim_{t\to+\infty} \frac{\ln\|f(t)\|}{t} .$$

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S/044/61/000/006/012/019
C111/C222

On the spectrum...

The following examples are given: 1) The generating operator A has a simple pure point spectrum lying on the imaginary axis. All motions of the system are bounded, but not all are almost periodic. 2) The l.d.s. is uniformly asymptotically stable for $t \to +\infty$ while the point spectrum of the generating operator A is empty.

[Abstracter's note: Complete translation.]

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